

AMENDMENTS TO THE CLAIMS

1. (canceled)
2. (canceled)
3. (canceled)
4. (canceled)
5. (canceled)
6. (previously presented) A grinding diamond disc comprising a plurality of diamond grains bound on a grinding portion of the disc, wherein the plurality of diamond grains are bound on the grinding portion in such a manner that a plurality of adjacent diamond grains are patterned in a predetermined configuration to form diamond group units which are arranged regularly on the grinding portion, and the diamond group units are oriented in different directions according to grinding loads of the diamond grains.
7. (previously presented) A grinding diamond disc comprising a plurality of diamond grains bound on a grinding portion of the disc, wherein the plurality of diamond grains are bound on the grinding portion in such a manner that a plurality of adjacent diamond grains are patterned in a predetermined configuration to form diamond group units which are arranged regularly on the grinding portion, and wherein the grinding portion is formed by a substantially flat or round face, and the diamond group units are arranged continuously in a swirl shape from an inner diameter end side of the grinding portion to an outer diameter end side thereof.
8. (previously presented) A grinding diamond disc comprising a plurality of diamond grains bound on a grinding portion of the disc, wherein the plurality of diamond grains are bound on the grinding portion in such a manner that a plurality of adjacent diamond grains are patterned in a predetermined configuration to form diamond group units

which are arranged regularly on the grinding portion, and wherein the grinding portion is formed by a substantially flat or round face, and the diamond group units are arranged to have a gap which gradually decreases toward the outer diameter end of the grinding portion.

9. (currently amended) The grinding diamond disc according to claim 6 ~~any one of claims 6 to 8~~, wherein the diamond group units are each formed by three diamond grains arranged in a triangle shape.

10. (canceled)

11. (previously presented) A grinding diamond disc comprising: a plurality of diamond grains which are bound on a region of a disc surface from an outer diameter side of a center region to a peripheral edge region, and are not bound on the center region, wherein the disc surface to which the plurality of diamond grains are bound includes a center side region and a peripheral side region located on an outer periphery of the center side region, and the diamond grains are arranged to form the character or the graphic drawn in the pointillist manner in the center side region.

12. (canceled)

13. (canceled)

14. (canceled)

15. (original) A grinding diamond disc which is circular in a front view, the grinding diamond disc having a mounting hole formed in a center region of a disc surface thereof, the grinding diamond disc comprising:

a protruding portion formed at a peripheral edge of the grinding diamond disc and configured to protrude forward and backward, wherein the diamond grains are bound on the protruding portion.

16. (previously presented) A grinding diamond disc which is circular in a front view, the grinding diamond disc having a mounting hole formed in a center region of a disc surface thereof, the grinding diamond disc comprising: a protruding portion formed at a peripheral edge of the grinding diamond disc and configured to protrude forward and backward, wherein the diamond grains are bound on the protruding portion intermittently.

17. (currently amended) The grinding diamond disc according to claim 15 [[or 16]], wherein an outer peripheral edge of the protruding portion is rounded in a cross-sectional view.

18. (new) The grinding diamond disc according to claim 7, wherein the diamond group units are each formed by three diamond grains arranged in a triangle shape.

19. (new) The grinding diamond disc according to claim 8, wherein the diamond group units are each formed by three diamond grains arranged in a triangle shape.

20. (new) The grinding diamond disc according to claim 16, wherein an outer peripheral edge of the protruding portion is rounded in a cross-sectional view.